

APRIL/MAY 2023

FABT12/CABT12 — BIODIVERSITY

Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.



1. Why biological hotspots are important?
2. List any two benefits of biodiversity.
3. Define Caudex.
4. Why *Funaria* is called cord Moss?
5. How is *Entamoeba histolytica* treated?
6. In what way *Taenia solium* transmitted?
7. What are the benefits of ecotourism?
8. Differentiate introduced species and an invasive species?
9. What is a wildlife reserve and why it is necessary?
10. What is the role of seed banks?

SECTION B — ($5 \times 5 = 25$ marks)

Answer ALL questions.

11. (a) Discuss the scope and applications of biodiversity.

Or

- (b) Explain the criteria for the selection of hotspots.

12. (a) Outline the economic importance of gymnosperms.

Or

- (b) Discuss briefly economic importance of bryophytes.

13. (a) Explain the life cycle of Starfish.

Or

- (b) Explain the structure of *Penaeus indicus*.

14. (a) Discuss the direct uses of industrial materials by biodiversity.

Or

- (b) Distinguish between existence value and intrinsic values.

15. (a) How the seeds, pollen, tissue, or embryos are stored using liquid nitrogen? Explain.

Or

- (b) Outline the characteristic features of biological gardens.

SECTION C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. Explain the components of biodiversity.

17. Summarize the structure and reproduction pattern of *Ectocarpus*.

18. Explain the external features and life cycle of *Pila globosa*.

19. Demonstrate the effects of habitat loss, fragmentation and degradation on biodiversity.

20. Describe the different methods of conserving biodiversity.